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Applicants: Michael Hensel, David William Holden and Jacquelin Shea

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For: *ATTENUATED SALMONELLA SP12 MUTANTS AS ANTIGEN CARRIERS*

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Sir:

Pursuant to 37 C.F.R. §1.56 and 37 C.F.R. §1.97, Applicants submit an Information Disclosure Statement, including fourteen (14) pages of Form PTO-1449. All of the documents cited below were cited by or submitted to the Patent Office in Application Serial No. 09/763,620, filed March 2, 2001, to which the present application claims priority. Pursuant to 37 C.F.R. §1.98(d), Applicants are not enclosing copies of these publications. Copies will be provided upon request, however.

This Information Disclosure Statement is being filed under 37 C.F.R. § 1.97(b) prior to a first Office Action on the merits. It is believed that no fee is required with this submission. However, should a fee be required, the Commissioner is hereby authorized to charge any required fees to Deposit Account No. 50-1868.

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<u>Number</u>	<u>Issue Date</u>	<u>Patentee</u>	<u>Class/Subclass</u>
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Remarks

This statement should not be interpreted as a representation that an exhaustive search has been conducted or that no better art exists. Moreover, Applicants invite the Examiner to make an independent evaluation of the cited art to determine its relevance to the subject matter of the present application. Applicants are of the opinion that their claims patentably distinguish over the art referred to herein, either alone or in combination.

Respectfully submitted,



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		Application Number	Divisional of 09/763,620		
		Filing Date	January 23, 2004		
		First Named Inventor	Michael Hensel		
		Group Art Unit			
		Examiner Name			
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U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	US Patent Document		Name of Patentee or Applicant of Cited Document	Date of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
		5,397,697		Lam, et al.	03-14-1995	
		5,527,674		Guerra, et al.	06-18-1996	
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Examiner Initials*	Cite No. ¹	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁸
		Office. ³	Number ⁴	Kind Code ⁵ (if known)				
		PCT	WO 92/01056		Institut Pasteur	01-23-1992		
		PCT	WO 93/04202		Washington University	03-04-1993		
		PCT	WO 94/26933		Leland Stanford Junior University	11-24-1994		
		PCT	WO 96/17951		RPMS Technologies, Ltd.	06-13-1996		

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		Filing Date	January 23, 2004		
		First Named Inventor	Michael Hensei		
		Group Art Unit			
		Examiner Name			
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		BROWN, et al., "Molecular analysis of the <i>rfb</i> gene cluster of <i>Salmonella</i> serovar muenchen (strain M67): the genetic basis of the polymorphism between groups C2 and B," <i>Mol. Microbiol.</i> 6:1385-1394 (1992).	
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		DUNYAKL, et al., "Identification of <i>Salmonella</i> pathogenicity island 2 (SPI2) genes in <i>Salmonella choleraesuis</i> using signature-tagged mutagenesis," <i>Abstracts of the 97th General Meeting of the American Society for Microbiology</i> 8-275, May 4-8, 1997.	
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		GALAN, et al., "Molecular And Functional Characterization Of The <i>Salmonella</i> Invasion Gene invA: Homology Of InvA To Members Of A New Protein Family," (1992).	
		GenBank Accession No. A51688 " <i>Salmonella typhimurium</i> " (1997).	
		GenBank Accession No. A51689 " <i>Salmonella typhimurium</i> " (1997)	
		GenBank Accession No. AF0208080 " <i>Salmonella typhimurium</i> pathogenicity island 2, partial sequence," (1998).	

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		GenBank Accession No. AJ224892 " <i>Salmonella typhimurium</i> ssaE, sseA, sseB, sscA, sseC, sseD, sseE, sscB, sseF, sseG, ssaG, ssaH, ssaI genes and partial ssaD, ssaJ genes," (1998).	
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		First Named Inventor	Michael Hensel		
		Group Art Unit			
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		GROISMAN & OCHMAN, "How To Become A Pathogen," <i>Trends Microbiol.</i> 2:289-293 (1994).	
		GROISMAN & SAIE, "Salmonella Virulence: New Clues To Intramacrophage Survival," <i>Trends In Biochem. Sci.</i> 15:30-33 (1990).	
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		GUZMÁN, et al., "Use of Salmonella spp carrier strains to delivery Bordetella pertussis antigens in mice using the oral route," in Biology of Salmonella (Cabello, et al., eds.) Plenum Press: New York, NY (1993).	
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		Filing Date	January 23, 2004		
		First Named Inventor	Michael Hensei		
		Group Art Unit			
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		MILLER, et al., "Isolation Of Orally Attenuated Salmonella Typhimurium Following TnphoA Mutagenesis," <i>Infection Immun.</i> 57:2758-2763 (1989).	
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		PASCOPELLA, et al., "Use Of In Vivo Complementation In Mycobacterium Tuberculosis To Identify A Genomic Fragment Associated With Virulence," <i>Infection Immun.</i> 62:1313-1319 (1994).	
		PELLCIC et al. "Genetic advances for studying Mycobacterium tuberculosis pathogenicity," <i>Molecular Microbiology</i> 28:413-420 (1998).	

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		PIATTI, et al., "Cloning and Characterization of <i>S. typhi</i> ," <i>Societa Italiana di Microbiologia Medica Odontoiatrica e Clinica</i> '93 (Translation), p. 82.	
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		ROOS et al. "Tagging genes and trapping promoters in <i>Toxoplasma gondii</i> by insertional mutagenesis," <i>Methods</i> 13:112-122 (1997).	
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		ROUDIER et al. "Characterization of translation termination mutations in the spv operon of the <i>Salmonella</i> virulence plasmid pSDL2," <i>J. Bacteriology</i> 174:6418-6423 (1992).	

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		RÜSSMAN, et al., "Delivery of epitopes by the <i>Salmonella</i> type III secretion system for vaccine development," <i>Science</i> 281: 565-568 (1998).	
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		SLAUCH, et al., "In Vivo Expression Technology For Selection Of Bacterial Genes Specifically Induced In Host Tissues," <i>Methods Enzymol.</i> 235:481-492 (1994).	
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		SMITH, et al., "Virulence Of <i>Aspergillus fumigatus</i> Double Mutants Lacking Restriction And An Alkaline Protease In A Low-Dose Model Of Invasive Pulmonary Aspergillosis," <i>Infection Immun.</i> 62(4):1313-1319 (1994).	
		STAENDNER, et al., "Identification of <i>Salmonella typhi</i> promoters activated by invasion of eukaryotic cells," <i>Mol. Microbiol.</i> 18:891-902 (1995).	
		STEIN, EMBL ID NO:ST51867, ACCESSION NO.: U51867 (March 4, 2000).	

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		STOJILJKOVIC et al., "Ethanolamine utilization in <i>Salmonella typhurium</i> : nucleotide sequence, protein expression, and mutational analysis of the cchA cchB eutE eutJ eutG eutH gene cluster," <i>J. Bacteriol.</i> 177(5):1357-66 (1995).	
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		WOOLLEY et al. "Transfer of Tn1545 and Tn916 to Clostridium acetobutylicum," <i>Plasmid</i> 22:169-174 (1989).	

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